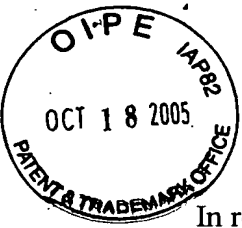


B/R



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Gunter BAUR et al.

Serial No.: 08/627,386

Group Art Unit: 2871

Filed: April 4, 1996

Examiner: Kenneth Parker

For: ELECTROOPTICAL LIQUID CRYSTAL SWITCHING ELEMENT

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached are copies of two abstracts requested by the Examiner, along with a 1449 form. These are additional copies of items AP (62-319748 (JP)) and AQ (63-2593 (JP) with translation) originally submitted on June 7, 1996.

The 1449 also includes citations for U.S.P. 3807831 and JP-01/120528, along with copies of these documents. These are being submitted to correct typographical errors in the prior citations of these documents.

Clarifications

A review of the IDS's filed in this application, as well as copending applications in the same family, 08/627,387 and 08/627,388, indicates that certain clerical mishandlings have occurred in the PTO evidently due to the parallel handling of these three cases.

In IDS's of June 7, 1996, various references were cited by applicant in all three of the mentioned applications. The corresponding PTO-1449 forms were initialed by the Examiner and returned in the proper application during '388 prosecution. However, the PTO-1449 forms in '387 prosecution, after being initialed by the Examiner, were not returned in the proper application, but instead, were returned in conjunction with the prosecution of the above-captioned application. The returned forms for the above-captioned application per se bear the notation "copy," and the Examiner's initials at the bottom of the form but not the Examiner's initials next to the references. Applicants request the Examiner to return copies of the properly initialed forms. Presumably copies of the forms and the references are not needed. However,

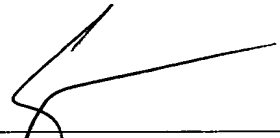
additional copies of the PTO-1449 form dated June 7, 1996 are being enclosed for convenience. (The references were clearly reviewed by the Examiner in view of the foregoing.) This may at least partially explain why references cited in the IDS of June 7, 1996 in the '387 application do not appear on the face of the patent which issued therefrom (WO84/04601, DE 2328581, DE 2459533 and JP 54-43048).

Similarly, IDS's were filed in all three applications on July 1, 1997. Again, due to clerical PTO errors, the PTO-1449 forms for the '387 and '388 applications were returned in conjunction with the prosecution of the above-captioned application (leaving the handwritten notation, "copy"), instead of the correct '387 and '388 applications. This may at least partially explain why references cited on those IDS's do not appear on the face of the corresponding patents.

Applicants also find no initialed form of the PTO-1449 form which was submitted in the IDS of April 25, 1997. Applicants request return of an initialed version. (Another copy of that form is also enclosed for the Examiner's convenience.)

☒ The Commissioner is hereby authorized to charge or credit any overpayment to Deposit Account #13-3402, two copies of this paper are attached for this purpose.

Respectfully submitted,



Anthony J. Zelano, Reg. No. 27,969
Attorney for Applicants

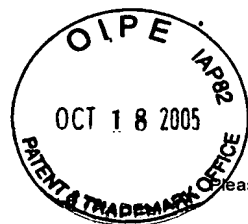
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Facsimile: (703) 243-6410

Attorney Docket No.: MERCK-1753-D01

Date: October 18, 2005

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	08/627,386
				Filing Date	April 4, 1996
				First Named Inventor	Gunter BAUR et al.
				Group Art Unit	2871
				Examiner Name	Kenneth Parker
Sheet	1	of	2	Attorney Docket Number	MERCK-1753-D01

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	AA	3,807,831		Soref	04-30-1974
	AB	6,887,534		Nakata et al.	05-03-2005

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	BA	JP	01120528		JSR Corporation	05-12-1989		√

Examiner Signature		Date Considered	
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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ See attached Kinds of U.S. Patent Documents. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached. Number refers to English language corresponding family member.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark



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Substitute for form 1449A/PTO

(use as many sheets as necessary)

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Complete if Known

Application Number	08/627,386
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Filing Date	April 4, 1996
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First Named Inventor	Gunter BAUR et al.
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Group Art Unit	2871
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Examiner Name	Kenneth Parker
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Attorney Docket Number	MERCK-1753-D01
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NON PATENT LITERATURE DOCUMENTS

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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Form PTO-1449 U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DKT. NO. MERCK 1753 D2	SERIAL NO. 08/627,387
	APPLICANT Günter BAUR et al.	
	FILING DATE April 4, 1996	GROUP 2515

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA	3,674,342	07/04/72	Castellano et al.			
AB	3,736,047	05/29/73	Gelber et al.			
AC	3,807,832	04/30/74	Soref			
AD	3,834,794	09/20/74	Soref			
AE	3,854,751	12/17/74	Haas et al.			
AF	4,116,544	09/26/78	Soref			
AG	4,345,249	08/17/82	Togashi			
AH	4,844,569	07/04/89	Wada et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
AI	84/04601	11/22/84	PCT				
AJ	23 28 581	1/74	Germany				
AK	24 59 533	7/75	Germany				
AL	52-82264		Japan				
AM	54-43048	4/79	Japan				
AN	62-189710		Japan				
AO	62-199708		Japan				
AP	62-319748		Japan				
AQ	63-2593		Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Schadt et al., Applied Physics Letter, 18(4):127-128 (February 15, 1971)
AS	Aviram et al., IBM Technical Disclosure Bulletin 15(6):1812-1813 (November 1972)
AT	Soref, Appl. Phys. Lett., 22(4):165-166 (February 15, 1973)
AU	Soref, J. Applied Physics, 45(12):5466-5468 (December 1974)
AV	Soref, Proceedings of the IEEE, pp. 1710-1711 (December 1974)
AW	Fahrenschon et al., Applied Physics, 11:67-74 (1976)
AX	Patent Abstracts of Japan, Vol. 3, No. 38, E-101 (March 30, 1979)
AY	Pohl et al., Applied Physics Letter, 38(7):497-499 (April 1, 1981)
AZ	Scheffer et al., J. Applied Physics, 58(8):3022-3031 (October 15, 1985).

Examiner	Date Considered
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Sheet 2 of 2

Form PTO-1449	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. MERCK 1753 D2	SERIAL NO. 08/627,387
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT Günter BAUR et al.	
		FILING DATE April 4, 1996	GROUP 2515

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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BL							
BM							
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BP							
BQ							
BR							
BS							
BT							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BU	Cognard, Molecular Liquid Crystals, Supplement pp. 1-77 (1987)
BV	Schadt et al., Applied Physics Letter, 50(5):236-238 (February 2, 1987)
BW	Patent Abstracts of Japan, Vol. 13, No. 219, P-875 (May 23, 1989)
BX	Patent Abstracts of Japan, Vol. 13, No. 242, P-880 (June 7, 1989)
BY	Patent Abstracts of Japan, Vol. 13, No. 428, P-936 (September 25, 1989)
BZ	Patent Abstracts of Japan, Vol. 13, No. 460, P-946 (October 18, 1989)
Examiner	Date Considered

Sheet 1 of 3

Form PTO-1449 U.S. DEPT. OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

ATTY. DKT. NO.
MERCK 1753 D1SERIAL NO.
08/627,386APPLICANT
Günter BAUR et al.FILING DATE
April 4, 1996GROUP
2515

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA	3,774,989	11/27/73	Takahashi			
AB						
AC						
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AE						
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AG						
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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
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AI	53-48542	05/02/78	Japan			X	
AJ	53-77646	07/10/78	Japan			X	
AK	53-89753	08/07/78	Japan			X	
AL	54-12762	01/30/79	Japan			X	
AM	54-36752	03/17/79	Japan			X	
AN	54-42163	04/03/79	Japan			X	
AO	54-43047	04/05/79	Japan			X	
AP	54-43048	04/05/79	Japan			X	
AQ	54-153047	12/01/79	Japan			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Werner, K., "The best of '96, Second Annual Display of the Year Awards," Information Display, Vol. 12, pp. 12-15 (1996).
AS	Ohta, M. et al, "Electric Field Analysis in TFT-LCDs With In-Plane Switching Mode of Nematic LCs," Euro Display '96, (6th IDRC of SID), pp. 49-52 (Presentation 5.1 & Conference Digest)(1996).
AT	Tajima, Z. et al., "Hitachi Super TFT-LCD Offers 140° Viewing Angle," Nikkei Electronics Asia, March (1966), pp. 73-76.
AU	Norris, B., "EID '95: International Giants and Local Flair," Information Display, Vol. 12, No. 3, pp. 24-28 (1996).
AV	Chinnock, C., "Large-Screen Display Improves Viewing Angles," Laser Focus World, Nov., pp. 20-24 (1996).
Examiner	
Date Considered	

Sheet 2 of 3

Form PTO-1449 U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DKT. NO. MERCK 1753 D1	SERIAL NO. 08/627,386
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BN	58-2872	01/08/83	Japan			X	
BO	60-217336	10/30/85	Japan			X	
BP	60-218624	11/01/85	Japan			X	
BQ	227 809	09/25/85	Germany			X	
BR	227 542	09/18/85	Germany			X	
BS	3031 126	04/01/82	Germany				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BT	Matsumoto, S. et al., "Display Characteristics of In-Plane-Switching (IPD) LCDs and a Wide-Viewing-Angle 14.5 in IPS TFT-LCD," Euro Display '96 (16th IDRC of SID) pp. 445-448 (presentation LP-A and Conference Digest)(1996).
BU	Ota, K., "Hoshiden 14.5 inch IPS TFT-LCD Offers 140° Viewing Angle," Development of 14.5 Type IPS TFT-LCD With a Viewing Angle of 140° by Hoshiden," (in Japanese, English translation available), Editorial Dept., Technical Report, Monthly LCD Intelligence, pp. 26-29, January, 1997.
BV	English translation of LCD Intelligence, 1, 26-29 (1997).
BW	
Examiner	
Date Considered	



Sheet 3 of 3

Form PTO-1449 U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DKT. NO. MERCK 1753 D1	SERIAL NO. 08/627,386
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U.S. PATENT DOCUMENTS

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CA						
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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
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CL							
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CN							
CO							
CP							
CQ							
CR							
CS							
CT							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CU	1996 Nikkei BP Technical Award, Grand Prize, (April 1996), Japanese & English versions.
CV	Television Society, Inc., Fujio Commemorative Award, (May 1996), Japanese & English versions.
CW	Advanced Display of the Year '96, Display Module Section, Grand Prix, (Sponsored by: Display and Imaging and Co-sponsored by: Lead Exhibition Japan, Ltd.) (July 1996).
CX	Society for Information Display, 1997 International Symposium, Seminar & Exhibition, Advance Program, pp. 10-11.
Examiner	
Date Considered	